KOROLEV, Aleksandr Nikiforovich; POFOV, Aleksandr Ivanovich; SIZOV, K.P., inzh., retsenzent; YAKOVLEV, I.N., inzh., retsenzent; SARANTSEV, Yu.S., inzh., red.; VOROTNIKOVA, L.P., tekhn. red.

[Economics, organization, and planning of railroad car operation] Ekonomika, organizatsiia i planirovanie vagonnogo khoziaistva. Moskva, Transzheldorizdat, 1962. 250 p. (MIRA 15:12)

(Railroads-Rolling stock)

KOMANDIN, A.V.; SIZOV, L.I.; SHIMIT, B.D. (Moscow)

Dielectric constant and dielectric losses of o-hydroxybenzoic acid derivatives in the liquid state. Zhur. fiz. khim. 37 no.4:764-769 Ap \*63. (MIRA 17:7)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

L 9903-63 EPF(c)/EWT(1)/EWT(x)/BDS/ES(s)-2/EWG(k)-AFFTC/ASD/SSD--Pr-4/Pt-4/Pz-4-RM/WW/MAY/IJP(C) S/C076/63/037/005/1083/1088 ACCESSION NR: AP3000418

AUTHOR: Komandin, A. V.; Sizov, L. I.; Shimit, B. D.

TITLE: Thermodynamics of dielectric relaxation processes in liquids.

SOURCE: AN SSSR. Zhurnal fizicheskoy khimii, v. 37, no. 5, 1963, 1083-1088

TOPIC TAGS: relaxation processes, phenyl O-hydroxybenzoate, phenyl o-acetoxybenzoate

ABSTRACT: A previous study (A. V. Komandin, L. I. Sizov and B. D. Shimit, Zh. Fiz. Khimii, 37, 764, 1963) was made on the dependence of temperature upon the penetration of phenyl o-hydroxybenzoate and phenyl o-acetoxybenzoate at various frequencies of external electric field in a liquid and a supercooled media. The present work is concerned with the investigation of the dispersion penetrations of these compounds at several temperatures. From the results obtained in both investigations, the main thermodynamic functions characterizing the dielectric relaxation processes in the liquids are calculated. The dispersion of the dielectric constant of phenyl o-hydroxybenzoate at 10, 15 and 200, and

Card 1/2

L 9903-63

ACCESSION NR: AP3000418

of phenyl o-acetoxybenzoate at 55 and 42C in the supercooled state has been determined. A linear relationship between log Tau and 1/T has been established for both compounds and their corresponding derived equations. A detailed explanation and calculations are given in the discussion of results. Orig. art. has: 7 equations, 7 tables and 3 graphs.

ASSOCIATION: Moskovskiy gosudarstvenny\*y universitet (Moscow State University)

SUBMITTED: 07May62 DATE ACQ: 19Jun63

ENCL: 00

SUB CODE: 00

NR REF SOV: 005

OTHER: 002

Card 2/2

EWT(m)/T SOURCE CODE: UR/0413/66/000/013/0153/0153 ACC NR: AP6025686 INVENTOR: Privalov, A. I.; Il'ichev, V. V.; Kovalev, N. I.; Novikov, Ye. D.; Sizov, M. A. 24 ORG: none TITLE: Device for checking the working substance in a closed hydraulic system. Class 72, No. 183626 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 153 TOPIC TAGS: hydraulic device, hydraulic engineering, hydraulic equipment ABSTRACT:  $\sqrt{}$  An Author Certificate has been issued for a device for checking the working substance in a closed hydraulic system. It consists of a main pump, a booster tank, and pressure signaling devices mounted on the pressure and suction lines of the main pump and connected to the closed hydraulic system. To automatically compensate for workingsubstance losses in the hydraulic system the signaling device mounted on the pressure line actuates a hydraulic pumping cylinder to replace losses, and the signaling device mounted on the suction line turns it off. The pumping cylinder is equipped with a terminal switch which signals the amount of liquid fed into the system. SUB CODE: 13/ SUBM DATE: 19May 64/ UDC: 623.451.8 1/1 mjs

124-1957-1-441

Translation from: Referativnyy zhurnal, Mekhanika. 1957. Nr 1. p 56 (USSR)

AUTHOR Sizov M.B.

The Laws Governing the Outflow of a Liquid Through a Small Orifice From Containers Having the Shape of Bodies of Revolution (Zakony TITLE:

istecheniya zhidkosti cherez maloye otverstiye iz sosudov,

imeyushchikh formu tel vrashcheniya)

V sb.: Mekhanika (MVTU, Vol 50). Moscow, Oborongiz, 1956 PERIODICAL:

The usual formula  $v = \mu \sqrt{2gz}$ , containing the variable height z and the constant orifice velocity coefficient  $\mu$ , is emheight z ABSTRACT: ployed to express the velocity of the outflow of a heavy liquid through a small orifice of arbitrary form. located near the bottom of a vessel, in the absence of any compensating inflow. Assuming incompressibility, the Author obtains the time t of complete discharge in the form of an integral, the evaluation of which is accomplished by means of a relationship containing  $\mu$  between t, z, and the initial height of the liquid level for certain special cases.

There are no numerical examples.

D. Ye. Dolidze

Card 1/1

1 Liquids--Flow--Velocity--Analysis

EWT(1) IJP(c) L 31355-65

AR5005462 ACCESSION NR:

8/0124/64/000/012/A015/A015

SOURCE: Ref. zh. Mekhanika, Abs. 12A79

AUTHORS: Sizov, M. B.

TITLE: Dynamics of constrained system of points in relative motion. Derivation

of equations of motion

Uch. zap. Mosk. obl. ped. in-ta, v. 131, 1963, 137-147

TOPIC TAGS: particle system dynamics, constrained system, friction force, equation of motion

TRANSLATION: The equations of motion are formulated for a system of material points coupled to some curves rotating around a vertical exis with variable angular velocity. The forces of the friction of the points against the curves are taken into account. The energy integral is formulated for stationary motions with ideal coupling. A. P. Duvakin.

SUB CODE: GP ENCL:

Card 1/1

L 13073-63

EWT(d)/FCC(w)/BDS

AFFTC IJP(C)

ACCESSION NR: AP3000956

s/0140/63/000/003/0153/0157

AUTHOR: Sizov, M. B. (Moscow)

51

TITLE: Solution of the Poincare linear system in the case of a zero root of the characteristic equation

SOURCE: IVUZ. Matematika, no. 3, 1963, 153-157

TOPIC TAGS: periodicity, differential equation, quasi-linear system, characteristic equation, zero characteristic root, pure imaginary root, characteristic root

ABSTRACT: The author obtains an additional condition for periodicity. When this is satisfied, there exists a periodic solution of the pseudo-linear system (see Enclosure 1) in the presence of purely imaginary roots and one zero root of the characteristic equation of the system. This condition is simple to verify since it can be expressed in terms of the coefficients of the given system, and it is convenient for practical computations. Orig. art. has: 28 formulas.

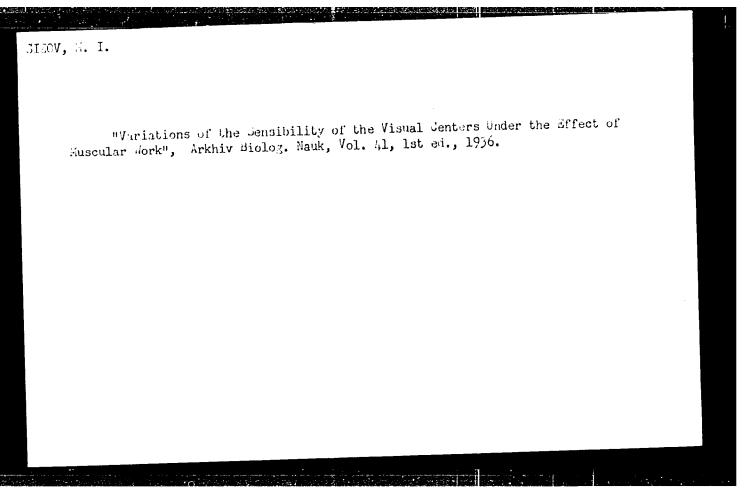
ASSOCIATION: none

SUBMITTED: 170ct60

SUB CODE: 00

DATE ACQ: 12Jun63 NO REF SOV: 003 ENCL: 01

Card 1/2/



#### SIZOV, M.I.

Effect of temperature and storage time of meat on the physicochemical properties of its salt-soluble protein. [with English summary in insert]. Biokhimiia 21 no.3:317-321 My-Je '56. (MIRA 9:9)

1. Institut biologicheskoy fiziki Akademii nauk SSSR, Moskva
(MEAT,
eff. of temperature & time of preserv. on myosin (Rus))
(MUSCLE PROTEINS,
myosin, eff. of temperature & time of preserv. of meat
on myosin (Rus))

CIA-RDP86-00513R001550920018-0"

APPROVED FOR RELEASE: 08/23/2000

| Lever- | -cable clamp. Stroitel' no.6:30 Je '58.<br>(BuildingTools and implements) | (MIRA 11:7) |
|--------|---|-------------|
|        | •   |             |
|        |   |             |
|        |   |             |
|        |   |             |
|        |   |             |
|        |   |             |
|        |   |             |
|        |   |             |

Light gypsum nixer. Stroitel' no.11:21 N '59.

(MIRA 13:3)

1. Starshiy instruktor Byuro tekhnicheskoy informatsii

Minatroya Kirgizskoy SSR.

(Mixing machinery)

| 3 | STROY. | M |
|---|--------|---|
|   |        |   |

2. USSR (600)

4. Education of Children

7. Assistance to laborers and white-collar workers in training children, Prof. soiuzy 8 no. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

BELOKHVOSTOV, V.A., mayor tekhnicheskoy sluzhby; SIZOV, N.I.,
inzhener-kapitan

Combat equipment of an antimissile missile (as revealed by
foreign press data). Vest. protivovozd. obor. no.7:21-24
J1 '61.

(Antimissile missiles)

LEBEDEVA, L.P.; SIZOV, N.I.

Annealing products of iron base antifriction ceramic metals. Porosh. met. 5 no.6:79-82 Je \*65.

| SIZOV, N.T.   |   |
|---|---|
| Equipment for the automatic welding of ring joints on metal drums. Swar.proizv. no.9:41-42 S '60. (MIRA 13:8) |   |
| 1. Frunzenskiy mashinostroitel'nyy zavod. (Electric weldingEquipment and supplies)                            |   |
|   | •                                       |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   | . · · · · · · · · · · · · · · · · · · · |

AVAMARIA EN PREMIO DE LA COMPANSO DE LA SOSTITURA DE LA COMPANSO DE LA COMPANSO DE LA SOSTITURA DE LA COMPANSO DEL COMPANSO DE LA COMPANSO DEL COMPANSO DE LA COMPANSO DEL COMPANSO DE LA COMPANSO DEL COMPANSO DEL COMPANSO DEL COMPANSO DEL COMPANSO DE LA COMPANSO DEL COMPANSO DEL

SANDLER, M.S.; CHIRKOV, A.I.; SIZOV, N.T.

Concerning A.B.Topolianskii's article "Problems of safety in electrical systems of the construction industry." Prom.energ. 19 no. 4:59-60 Ap '64. (MIRA 17:5)

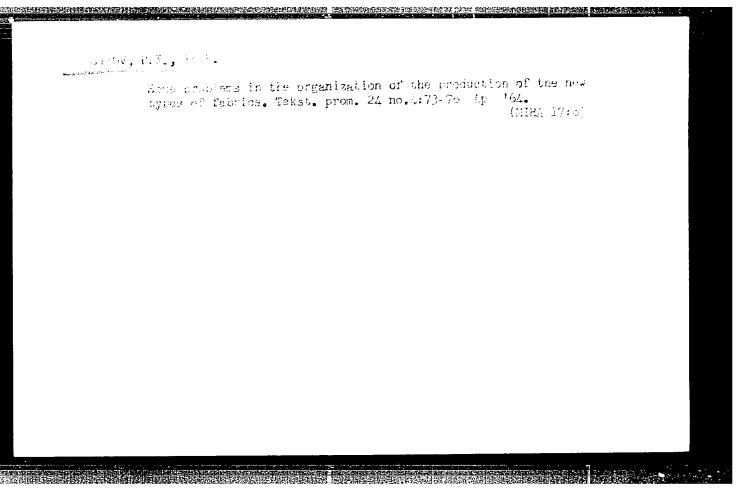
1. Obukhovskiy domostroitel'nyy kombinat Glavnogo upravleniya po zhilishchnomu grazhdanskomu i promyshlennomu stroitel'stvu Leningradskogo gorodskogo ispolnitel'nogo komiteta (for Sandler, Chirkov). 2. Noginskaya elektroset'Moskovskogo oblastnogo ekspluatatsionno-energeticheskogo upravleniya (for Sizov).

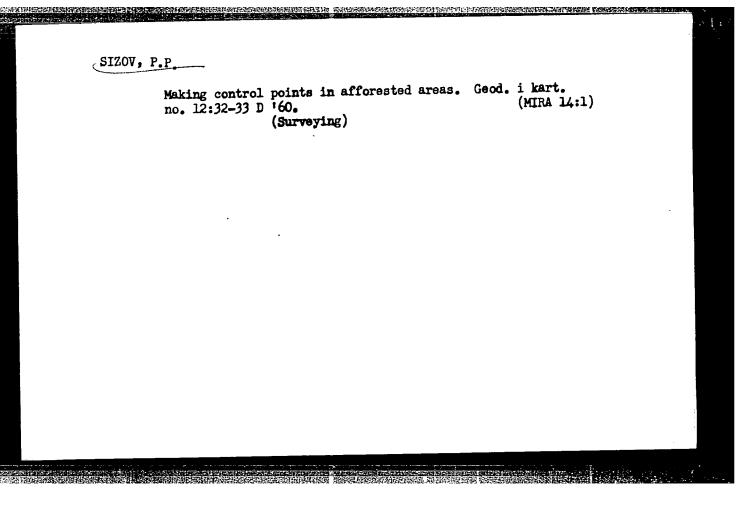
Machine for making gypsum-sawdust mastics. Suggested by N.V.
Sizov. Rats.i izobr.predl.v stroi. no.16:115-117 '60.

(MIRA 13:9)

l. Po materialam Ministerstva stroitel stva Kirgizskoy SSR, Frunze, ul. Krasnoarmeyskaya, d.99.

(Mixing machinery)



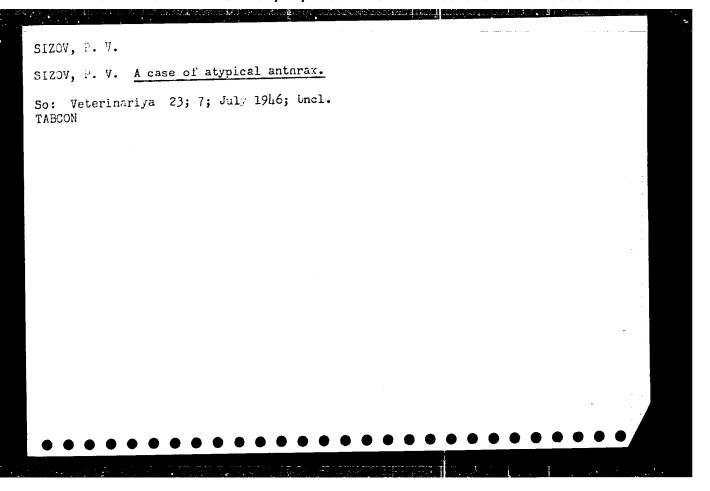


ALITYEV, B.M.; MISYUNAS, T.T.; KAVESHNIKOVA, S.V.; SIZOV, P.F.

Work of a group in charge of the dosage control in large focus gamma therapy. Med. rad. 10 no. 12:13-21 D '65 (MIRA 19:1)

1. Rentgeno-radiologicheskiy otdel (zav. - prof. I.I. Tager) Instituta eksperimental noy i klinicheskoy onkologii AMN SSSR i 62-ya Gorodskaya klinicheskaya onkologicheskaya bol nitsa, Moskva.

```
Sizor, P. V.
Sizor, P. V. Abortions in succe due to colibacillosis:
So: Veterinariyo; 22; (1): January 19h5; Uncl.
TABCON
```



YAMZIN, I.I.; SIZOV, R.A.

Double coordinate neutron diffractometer. Kristallografiia 9 no.6:946-948 N-D \*64. (MIRA 18:2)

1. Institut kristallografii AN SSSR.

1.24377-66 = EVIT(m)/EVIA(d)/I/EVIP(t) = IJP(c)

ACC NR: AP6010980 SOURCE CODE: UR/0056/66/050/003/0595/0604

AUTHORS: Yamzin, I. I.; Sizov, R. A.; Zheludev, I. S.; Perekalina, T. M.; Zalesskiy, A. V.

ORG: Institute of Crystallography, Academy of Sciences SSSR (Institut kristallografii Akademii nauk SSSR)

TITLE: Spin ordering and magnetocrystalline anisotropy in single erystals of BaCo Fe 18-x 27 ferrites

SOURCE: Zhurnal eksperimentalinoy i teoreticheskoy fiziki, v. 50, no. 3, 1966, 595-604

TOPIC TAGS: ferrite, single crystal, magnetic anisotropy, neutron diffraction, nuclear spin, Curie point, temperature dependence, spin wave theory

ABSTRACT: This is a continuation of earlier work by the authors (ZhETF v. 46, 1985, 1964). In this paper new data are presented on the magnetic anisotropy energy of the ferrite system under discussion. The crystals were grown by the Verneuil method and were the same as

Card

1 2/377-66

ACC NR: AP6010980

used in the earlier investigation. In view of the fact that the ferrites investigated exhibit various types of magnetic anisotropy at low temperatures, the authors used a neutron diffraction method to investigate the influence of the cobalt ions on the positions of the spin ordering axis in these crystals in the temperature range from 77K to the Curie temperature. The temperature dependence of the magnetic anisotropy constants was investigated in the same range of temperatures and compared with the theory. The same samples were used to obtain neutron diffraction patterns as were used in the investigation of the magnetic anisotropy. The results show that the spin directions coincide with the directions of the total magnetization vectors of the crystals. The data also indicate that the experimental results can be fully reconciled with a theoretical formula deduced by Ye. A. Turov from the phenomenological theory of spin waves (Fizicheskiye svoystva magnitouporyadochennykh kristallov [Physical Properties of Mangetically Ordered Crystals], AN SSSR, 1963), without need to make allowance for any particular structure model. Orig. art. has: 7 figures, 3 formulas, and 3 tables.

SUB CODE: 20/ SUBM DATE: 250ct65/ ORIG REF: 003/ OTH REF: 009

Card \_\_\_\_ 2/2

#### CIA-RDP86-00513R001550920018-0 "APPROVED FOR RELEASE: 08/23/2000

EWP(e)/EWT(m)/EPF(n)-2/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(h)

ACCESSION NR: AP5013724

UR/0070/65/010/003/0423/0424

548.7

AUTHOR: Sizov, R. A.; Yamzin, I. I.

TITLE: The effect of particle size on extinction in neutron diffraction.

SOURCE: Kristallografiya, v. 10, no. 3, 1965, 423-424

TOPIC TAGS: powder metallurgy, particle size, neutron diffraction

ABSTRACT: The effect of powder size on the magnitude of extinction was determined experimentally. The sample consisted of BaCo<sub>1,0</sub>Fe<sub>1,0</sub><sup>2+</sup>re<sub>16</sub><sup>3+</sup>O<sub>2</sub>, ferrite powder pressed into a thin-walled aluminum cylinder with a diameter of 15 mm and 30 mm high. The powder was obtained by the mechanical grinding of crystals and subsequent sieving with screens of different mesh. A total of six samples of different particle size were prepared. The two most intense reflections (1010 and 1120) were used. The first is basically of magnetic origin while the second is both magnetic and nuclear. The exposure was made at room temperature using a two-coordinate neutron diffractometer installed on the radial channel of the reactor. The variation in the intensity of reflections was due to extinction. The effect of other factors is estimated as less than 1%. The experimental data were used to plot curves which

**Card** 1/2

| show that the extinction effect was small in sample No. 3 (approximately 1%) and was absent in sample No. 4. Orig. art. has: 1 table, 2 figures  ASSOCIATION: Institut Kristallografii AN SSSR (Institute of Crystallography AN SSSR)  SUBMITTED: 220ct64 ENCL: 00 SUB CODE: MM, NP  NO REF SOV: 001 OTHER: 001 | L 58367-65<br>ACCESSION NR: AP5013724      |            | • • • • • • • • • • • • • • • • • • •   |   |
|---|--|------------|---|---|
| SUBMITTED: 220ct64 ENCL: 00 SUB CODE: MM, NP  | was absent in sample No. 4.                | <b>5</b>   |   |   |
| SUBMITTED: 22Ucto4  | ASSOCIATION: Institut Kristallogi<br>SSSR) |            |   |   |
| NO REF SOV: 001 OTHER: 001  | SUBMITTED: 220ct64                         | ENCL: 00   |   |   |
|   | NO REF SOV: 001                            | OTHER: 001 |   |   |
|   |  |            | 경기 시간 경기를 보고 있다. 그런 이 시간 중인 등록 수<br>2018년 - 1917년 - 1917년 - 1918년 | 4 |
|   |  |            |   |   |
|   |  |            |   |   |
|   |  |            |   |   |
|   |  |            |   |   |
|   | 0.0  |            |   |   |
| Card 2/2  | Card 2/2                                   |            |   |   |

5/

L 29785-66 EWT(m)/T/EWP(t)/ETI IJP(c) JD

ACC NR: AP6015089 SOURCE CODE: UR/0020/66/168/001/0090/0093

AUTHOR: Sizov, R. A.; Yamzin, I. I.

ORG: Institute of Crystallography, Academy of Sciences, SSSR (Institut kristallografii Akademii nauk SSSR)

TITLE: Neutron diffraction study of the magnetic structure of hexagonal ferrites of the Co<sub>x</sub>W system

SOURCE: AN SSSR. Doklady, v. 168, no. 1, 1966, 90-93

TOPIC TAGS: neutron diffraction, ferrite, cobalt compound, barium compound, iron compound, magnetic property atructure, crystal, polycrystal, rules spin

ABSTRACT: In order to determine the spin ordering in ferrites of the  $Co_xW$  system  $(BaCo_x^2+Fe_{2-x}^2+Fe_{16}^3+O_x)$ , the authors carried out a neutron diffraction analysis on single and polycrystals with compositions x=0, 0.5, 1.0, 1.5, and 1.75, in the range from 77 to 770°K. The correct values of the magnetic contributions to the diffraction pattern and absolute values of the saturation magnetization were obtained. The model of spin ordering in its general features and the angle between

Card 1/2 UDC: 539

L 29785-66

ACC NR: AP6015089

S

the spin axes and axis c were determined by analyzing the neutron diffraction patterns of polycrystalline specimens. Additional information was obtained from observations of the tymperature dependence of the intensity of magnetic reflections from single crystall specimens. The paper was presented by Academician Belov, N. V., 20 Sep 65. Authors thank T. M. Perekalina and R. A. Vaskanyan for providing the specimens, Yu. Z. Nozik for constant interest in the work and useful suggestions, and Prof. J. Bacon for a helpful discussion of the results. Orig. art. has: 2 figures and 2 tables.

SUB CODE: 20/ SUBM DATE: 07Sep65/ ORIG REF: 003/ OTH REF: 007

Card 2/2 W

USSE/ Engineering - Casehardening

Card 1/1 Pub. 128 - 20/34

Authors : Tel'nov, G. M., and Sizov, S. N.

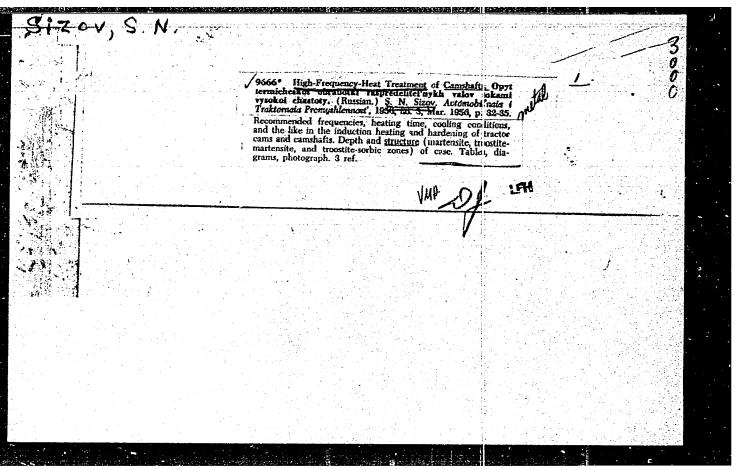
Title : The casehardening of large crankshaft journals with high-frequency current heating at low power

Periodical : Vest. mash. 12, 66-68, Dec 1954

Abstract : Methods for casehardening crankshaft journals made of the OKhM, OKhNIM, 40Kh and 45G2 steels are discussed, and the individual casehardening operations are described. Table; drawing.

Institution : ......

Submitted : .....



Control systems using high-frequency circuits in hardening equipment. Prom.energ. 11 no.7:5-6 J1 '56. (MLRA 9:10)

(Electric generators) (Furnaces, Heat-treating)

ការបានបញ្ជាំរបស់ ដំណើននេះ <mark>គ</mark>ឺ ក្រសិន្ត ប្រជាជានេះ មិនប្រែក្រោះ ហៀបរបស់ បានប្រការបានប្រែក្រសិន

AUTHOR:

Sizov, S.N.

SOV-113-58-8-12/21

TITLE:

Heating Camshafts for Tempering by Higher Frequency Currents (Nagrev pod zakalku raspredelitel'nykh valov tokami povysh-

ennoy chastoty)

PERIODICAL:

Avtomobil'naya promyshlennost', 1958, Nr 6, pp 37-38 (USSR)

ABSTRACT:

For the induction heating of camshafts for tempering, frequencies of 8,000 - 10,000 c instead of the normal 2,000 - 3,600 c offer distinct advantages. The 2,000 c, 200 kw generator usually feeds two tempering machines with a total production of 36 shafts per/hour and a power consumption of 3.25 kw hrs a shaft. The 3,600 c, 200 kw generator has a capacity of up to 60 shafts p/hr and a power consumption per shaft of 1.9 kw/hr. An 8,000 c, 175 kw generator, however, has a capacity of up to 80 shafts p/hr and a power consumption of 1.6 kw hrs per shaft. The normal water-screened inductor can not be used with 8,000 c generators since uneven heating of the cams occurs. Instead, an inductor with electro-magnetic screening is used, produced by the Ural'skiy and Moskovskiy avtozavody (Ural and Moscow Motor Vehicle

Card 1/2

SOV-113-58-8-12/21

Heating Camshafts for Tempering by Higher Frequency Currents

Plants). Soviet industry does not produce 10,000 c high frequency generators, so the upper frequency limit at present is 8,000 c, at 100 kw power. The use of tube generators is not advisable since they cause uneven heating. There is 1 table and 3 Soviet references.

ASSOCIATION:

Gor'kovskiy avtozavod (Gor'kiy Motor Vehicle Plant)

1. Camshafts--Induction heating 2. Generators--Applications

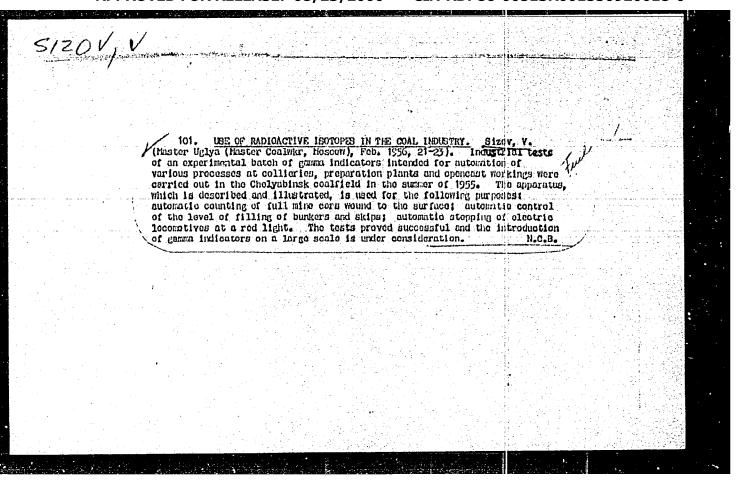
Card 2/2

POZDENV, V.V.; SIZOV, S.Yu.; SVETLOV, Yu. A.

Work of the Central Factory Laboratory fulfilling the decisions of the 22d Congress of the CPSU. Zav.lab. 28 (MIRA 15:10) no.10:1265 162. (Chemical laboratories)

31707, 7., prepodavatel 
To starting teachers. Prof. tekh. obr. 21 no.10:18-20 H164 (VCRA 18:2)

1. Meyunakeye noltakeye prefessional no-tekhnicherkeye uchilishebe No.14, Rovenshaya obl.



LUK'YANENKO, I., inzhener; SIZOV, V., inzhener.

Gontributien by efficiency werkers of the Leninsk mine. Mast.ugl. 5 ne.9:20-22 5 '56.
(NIRA 9:10)

(Enznetsk Basin--Ceal mining machinery)

Propagation of radio waves during a full solar exlipse. Radio no.7:23 J1 '61. (Radio, Shortwave)

Raise the quality of winter masonry work. Stroitel' 8 no.12 (MIRA 16:2)

(Masonry--Cold weather conditions)

SIZOV, V. A.

Differential diagnosis of pathological states concomitant with elongation of the vertebral bodies. Vrach. delo no.3:13-16 Mr 162. (MIRA 15:7)

1. Kafedra rentgenologii (zav. - prof. A. Ye. Ruhasheva) Kiyevskogo instituta usovershenstvovaniya vrachey.

(DIAGNOSIS, DIFFERENTIAL) (VERTEBRAE DISEASES)

SIZOV, V.A. (Kiyev, Delegatskiy per. d.12,kv.3)

Changes in the ribs in tuberculous spondylitis. Ortop., travm. i protez. 24 no.3:43-46 Mr '63. (MIRA 17:2)

1. Iz kafedry rentgenologii (zav. - prof. A.Ye. Rubasheva) Kiyevskogo instituta usovershenstvovaniya vrachey (rektor dotsent M.N. Umovist) i III Kiyevskoy gorodskoy detskoy bol'nitsy kostnogo tuberkuleza.

SIZOV, V.A.. inzhener.

Standardized matching parts for the mass production of furniture.

Der.prom.5 no.7:3-5 Jl '56.

1.TaPKE Claymebel'proma.

(Furniture industry)

SIZOV, V.A., inzhener.; POLIKASHEV, N.M., inzhener.

Furniture made by the method of bending and kerfing. Der prom. 6
no.2:3-4 F '57.

1. TSentral'noye proyektno-konstruktorskoye byuro Glavmebel' proma.

(Furniture industry) (Veneers and veneering)

SIZOV, V.A., inzh,

Lines of furniture made up from standard elements. Der. prom. 6 no.9: 3-5 5 157. (MIRA 10:11)

1. TSentral'noye proyektno-konstruktorskoye byuro Minbumdrevproma RSFSR. (Furniture)

SIZOV, V.A., inzh.

New furniture designs. Der. prom. 7 no.4:6-7 Ap 158. (MIRA 11:5)

1. TSentral'noye proyektno-konstruktorskoye byuro Upravleniya mebel'noy promyshlennosti Mosgorsovnarkhoza.

(Furniture--Models)

and the second of the second o

SIZOV, V.A., inzh.; BLEKHMAN, A.B., inzh.

Standardization of units and parts used for making frame furniture. Der. prom. 7 no.8:1-3 Ag '58. (MIRA 11:9)

1. TSentral'noye proyektnoye konstruktorskoye byuro Upravleniya mebel'noy promyshlennosti Mosgorsovnarkhoza.

(Furniture)

Sizov. V.A., inzh.

Selection of sectional combination furniture. Der.prom. 9
no.1:3-5 Ja '60.

1. TSentral'noye proyektno-konstruktorskoye byuro Upravleniya
mebal'noy promyshlennosti Mosgorsovnarkhoza.

(Moscow--Purniture)

PROPERTY OF THE PROPERTY OF TH

SIZOV, V.A., inzh.

Standardization of subassemblies and specialization of production in the furniture industry. Der.prom. 9 no.7:1-4 J1 '60. (MIRA 13:7)

1. TSentral nove proyektno-konstruktorskove byuro Upravleniya mebel nov promyshlennosti Mosgorsovnarkhoza.

(Nescen Province-Furniture industry)

| 1 | itrength of f<br>l no.laj J | Turniture cons<br>la '62.<br>(Furn | truction and<br>itureQuali | garanteed li | ifetime. Der.prom<br>(MIRA 15:1) |
|---|-----------------------------|------------------------------------|----------------------------|--------------|----------------------------------|
|   |                             |                                    |                            |              |                                  |
|   | ţ                           |                                    |                            |              |                                  |
|   | ·                           |                                    |                            |              |                                  |
|   | <b>, t</b>                  |                                    |                            |              |                                  |
|   |                             |                                    |                            |              |                                  |
|   |                             |                                    |                            |              |                                  |
|   |                             |                                    |                            |              |                                  |

SIZOV, V.A.; IVANOV, N.A.

Method of finishing particle boards with plastics. Der.prom.
11 no.10:1-3 0 '62. (MIRA 15:9)

(Wood finishing) (Plastics)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550920018-0"

SIZOV, V.A.; IVANOV, N.A.; LEHKY, Miroslav [translator]

Finishing particle boards and preducts by plastic materials. Drevo 17 no.7:209-211 J1 '62.

1. Tsentral'noye proyektno-konstruktorskoye byuro, Moskva (for Sizov and Ivanov).

PETROV, Boris Sargeyevica, pre production of Alaksandrovich, inzh.: NIKIFCHOY, A Borist Approbaskaya, T.N., red. inzh.: NIKIFCHOY, A Borist Approbaskaya, T.N., red. inzh.: NIKIFCHOY, A Borist Approbaskaya, T.N., red. inzh.: NIKIFCHOY, A Borist Approbaskaya, red.

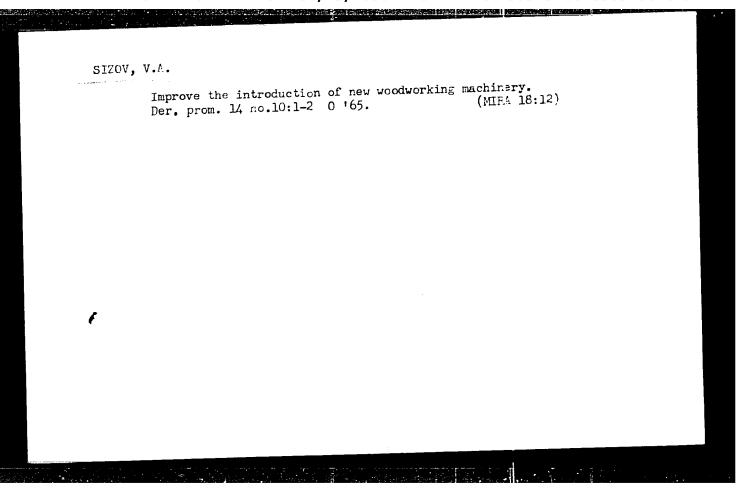
[Specialization and cooperation of furniture enterprises]
Spetsializatsiin i kooperirovanie mebel'nykh predpriiatii.
Noskva, Goslesbumizdat, 1963. 91 p. (MIRA 16:10)

(Furniture industry)

MISHCHENKO, G.L.; SIZOV, V.A.

Mechanizing the finishing of furniture. Der. prom. 12 no.5: 4-6 My 363. (MIRA 16:7)

1. TSentral'noye proyektno-konstruktorskoye byuro mebeli. (Furniture industry) (Wood finishing)



SIZOV, V.D., inzh. (st.Petelino, Moskovskoy dorogi)

Assume greater responsibility for the given assignment. Put'i
put.khoz. 6 no.11:2-3 '62.

(Railroads-Employees)

s/0057/64/034/006/0961/0964

ACCESSION NR: AP4040295

AUTHOR: Mitsuk, V.Ye.; Sizov, V.D.

TITLE: Application of a microwave method for measuring electron concentrations exceeding the critical concentration

SOURCE: Zhurnal Tekhnicheskoy fiziki, v.34, no.6, 1964, 961-964

TOPIC TAGS: plasma, plasma physics, microwave plasma, electron concentration, recombination phenomena, neon

ABSTRACT: The authors describe the microwave method for measuring electron concentrations exceeding the critical concentration  $mc^2/4\pi e^2$  employed by L.Goldstein and T.Sekiguchi (Phys.Rev.109,625,1958), T.Sekiguchi and R.C.Herndon (Ibid.112,1,1958), and S.Takeda and M.Roux (J.Phys.Soc.Japan 16,No.7,1961), and discussed by S.J.Buchsbaum and S.C.Brown (Phys.Rev.106,196,1957). This consists in measuring the attenuation and phase shift of TE10 waves in a rectangular waveguide traversed in the direction of the electric field by a small tube containing the plasma. The application of this method is limited by the skin effect. This diagnostic technique was employed to investigate recomination in neon plasma. The plasma was contained in a 3 mm diagnostic technique was employed to investigate recomination in neon plasma. The plasma was contained in a 3 mm diagnostic technique was employed to investigate recomination in neon plasma.

Card 1/ 2

ACCESSION NR: AP4040295

meter tube at a pressure of 3.3 mm Hg and was excited by 10 microsec current pulses of 3 or 4 amp. Microwaves of 3.2 cm wavelength were employed in 1 microsec pulses. The attentuation was measured by a substitution method, and the phase shift was obtained from the shift in the position of standing wave nodes. How the nodes were located during the 1 microsec pulses is not disclosed. The recombination was found to take place considerably more slowly than calculated by the theory of V.L.Granovskiy (Zheth 13,123,1943). Similar results have been obtained by G.N.Zastenker and Yef.Gubochkina (Voprosy\* radioelektroniki, GKRE, No.6,1961). The discrepancy is ascribed to rapid loss of electron energy by collisions of the first kind. The agreement with theory was improved by calculating the energy lost by the electrons to gas molecules from the experimental values of E/p and employing this in the theoretical calculations of electron densities and temperature. Orig.art.ham: 7 formulas, 3 figures and 1 table.

ASSOCIATION: Moskovskiy gosudarstvenny universitet im.M.V.Lomonosova, Fisicheskiy fakul'tet (Physics Department, Moscow State University)

SUBMITTED: 03Jun63

DATE ACQ: 19Jun64

ENCL: 00

SUB CODE: ME

NR REF SOV: 004

OTHER: 005

Card 2/2

SIZOV, V.G.

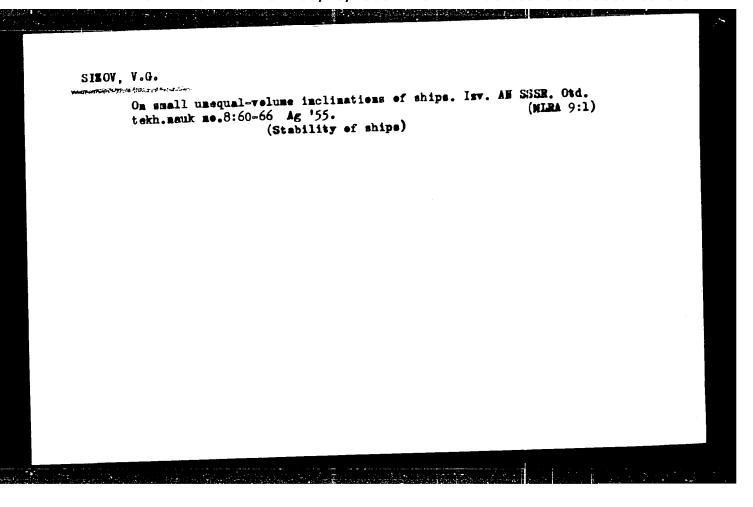
Calculating forces acting on a body in an unsteady periodic flow. Sudorem. i sudostr. no.2:66-71 '63. (MIRA 17:4)

1. Odesskoye vyssheye inzhenernoye morskoye uchilishche.

SIZOV, V.G. (Odessa)

Parametric resonance phenomena in rolling of ships. Inzh. sbor. 20:
21-24 "54.

(Stability of ships)



SIZOV, V.G., kand. tekhn. nauk

Stability of ships carrying bulk cargoes. Sudostroenie 24

no. 6:7-11 Je \*58.

(Stability of ships)

(Ships--Cargo)

S/20V, V. G.

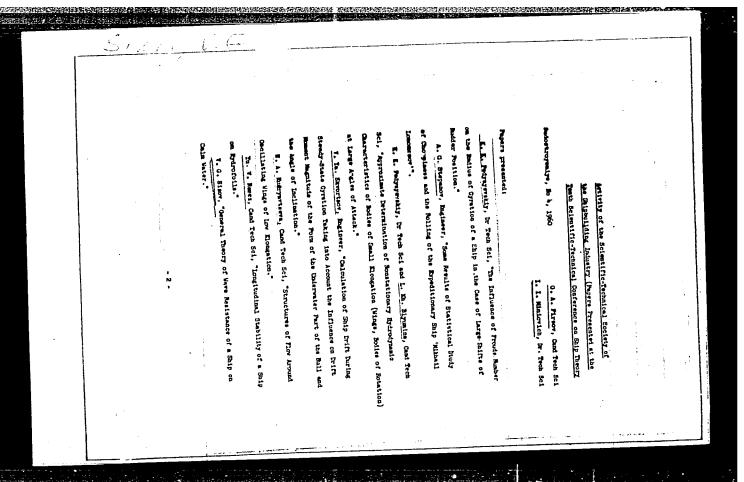
"The Theory of Ship Resistance under ordinary Swell Conditions."

report presented at the 11th Annual Scientific Technical Conference on Ship Theory, organized by the Central Administration of the Scientific-Technical Society of the Shipbuilding Industry, 13-15 December 1960.

SERVICE OF THE PROPERTY OF THE

"On Ship Contours having minimum total drag values."

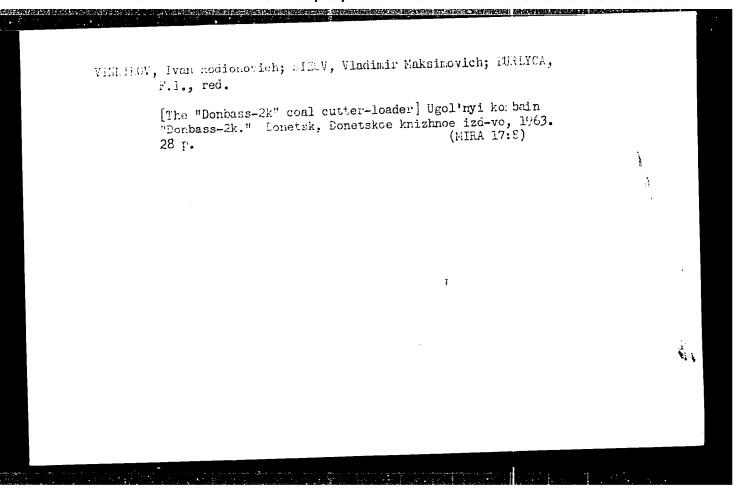
"The Method of a small parameter in the problem of wave resistence os ships" noco-aut. reports presented at the First All-Union Congress on Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb 60



Theory of the wave-making resistance of a ship in smooth water.

Izv. AN SSSR. Otd. tekh.nauk.Mekh. i mashinostr. nc. 1:75-85 Ja
(MIRA 14:2)

(Hydrodynamics) (Wave machanics)



SIZOV, V. N.

42240. SIZOV, V. N. Raschet rezhima vyderzhivaniya betona pri peremennoy temperature.
Byulleten' stroit. Tekhniki, 1943, No. 22, c. 24-23.

So: Letopis' Zhurnal'nykh Statey, Vol. 47, 1948.

```
Sizov, V. N. "Experience from winter work in construction trusts", [yulleten! stroit. tekhniki, 1940, No. 24, p. 1-3.

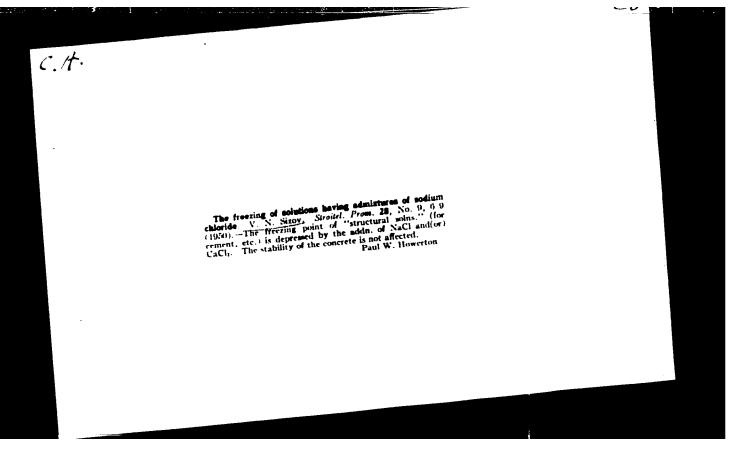
So: U-2000, 12 Web. 53, (Leto is' Zhurnal 'nykh Statey, No. 2, 1949'.
```

SIZOV, V. N.

SIZOV, V. N.

35260. Betonnye i zhelezobetonnye raboty v zimnikh usleviyakh. Trudy IV Vsesoyuz. Konf-Tsii Fo Beton i Zhetezobeton. Konstruktsiyam. CH. I. M.-L., 1949, S. 271-79

SO: Letopis'Zhurmal'nykh Statey Vol. 34, 1949 Yoskva



SIZOV, VASTLIY NIKCLAYEVICH

Construction work under winter conditions. 2. izd., dop. i perer. Moskva, Gos izd-vo lit-ry po stroitel'stvu i arkhitekture, 1951. Red. Tarasevich, A. P.

9. Monthly List of Russian Accessions, Library of Congress, June

SIZOV, V.N.

TREASURE ISLAND BIBLIOGRAPHIC REPORT

AID 144 - I

PHASE I

BOOK

Call No.: THJ.53.S67 Author: SIZOV, V. N., Laureate of Stalin Prize, Bach. Eng. Sci. ACCOMPLISHMENTS OF SOVIET ENGINEERING IN THE FIELD (F CONSTRUCTION

Transliterated Title: Dostizheniya sovetskoy tekhniki v oblasti stroitel'stva Full Title: v zimnikh usloviyakh

Originating Agency: All-Union Society for Dissemination of Political and Publishing Data

Scientific Knowledge

Publishing House: "Znanie" ("Knowledge")

No. of copies: 90,000 No. pp.: 31

Date: 1952

Tech. Ed.: None Editorial Staff Appraiser: None Editor: Mironov, S. A., Prof. Editor-in-Chief: None

This lecture is a popular presentation of some of the material covered more extensively in the same author's 1951 book Construction Works Text Data Coverage:

Popular dissemination of practical knowledge on winter construction. Purpose:

1/2

SIZOV, V. N.

Dostizheniya sovetskoy tekhniki v oblasti stroitel'stva v zimnikh usloviyakh

AID 144 - I

Facilities: TsNIPS --- Central Scientific Research Institute for Industrial Construction; VNIOMS -- All-Union Scientific Research Institute for the Organization and Mechanization of Construction; TsNILEPS--Central Scientific Research Laboratory for the Electrification of

industrial Construction.

No. of Russian and Slavic References: 2

Available: Library of Congress.

2/2

CIA-RDP86-00513R001550920018-0" APPROVED FOR RELEASE: 08/23/2000

#### CIA-RDP86-00513R001550920018-0 "APPROVED FOR RELEASE: 08/23/2000 是这些是**的人,我们就是我们的人,我们也没有一个人,我们**就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们是我们的人,我们就是我们的人,我们就是这一个

MIRONOV, S. A.; SIZOV, V. N.; BUZHEVICH, G. A.

Precast Concrete Construction

"Concentrated" system of steaming reinforced and slag concrete objects in the plant. Stroi. prom. 30, No. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

- 1. MIRCHOV, J.; SIZOV, V.
- 2. USUR (600)
- 4. Plastering
- 7. Doing plaster work under freezing conditions. Sel'. stroi. 3, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, 12y 1953, Unclassified.

SIZOV, V. N.

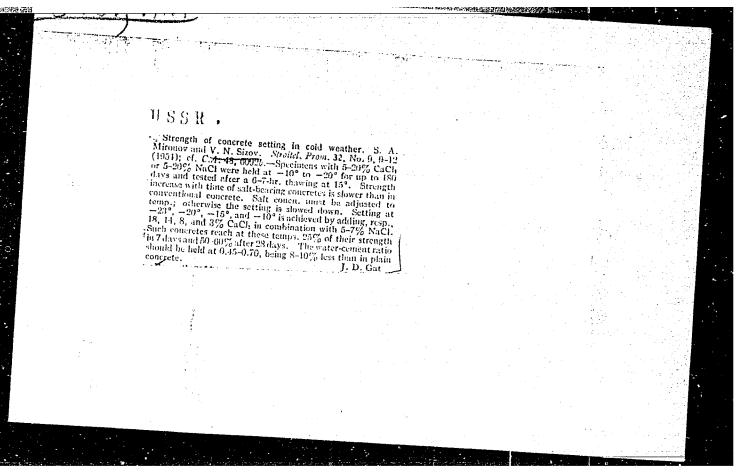
Primeneniye Khimicheskikh "obavok Pri. Zminikh Kamennykh, Betonnykh I Shtukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. P. N. Grigor'yeva. M., Gos. Izd. Lit. Postukaturnykh Raborkh, Pod Red. Lit. Postukaturnykh Raborkh, Pod Red. Lit. Postukaturnykh Raborkh, Pod Red. Lit. Postukaturnykh Ra

SO: Knizhnaya, Letopis, Vol. 1, 1955

SIZOV, V.N., laureat Stalinskoy premii.

Effect of early freezing on the durability of high-grade concretes. Stroi.prom.32 no.1:44-46 Ja '54. (MLRA 7:2)

1. TSentral'nyy nauchno-issledovatel'skiy institut mashinostroyeniya i metalloobrabotki. (Concrete construction--Cold weather conditions)



VASIL'YEV,A.P., kandidat tekhnicheskikh nauk; SIZOV,V.H., kandidat tekhnicheskikh nauk; AROBELIDZE,G.A., inzhener; GVOZDEV,A.A., professor, doktor tekhnicheskikh nauk; laureat Stalinsloy premii, redaktor; DESOV,A.Ye., professor, doktor tekhnicheskikh nauk, laureat Stalinskoy premii.

[Making precast concrete and reinforced concrete elements in construction yards.] Izgotovlenie sbornykh betonnykh i shlezobetonnykh konstruktsii na poligonakh. Moskva, Gos. izd-vo litry po stroit. i arkhitekture, 1955. 90 p. (Moscow. TSentral'nyi nauchno-issledovatel'skii institut promyshlennykh soorushenii. Nauchnoe soobshchenie, no.17)

(Precast concrete) (Reinforced concrete)

SIZOV, V.N., laureat Stalinskoy premii

Effect of various antifreezing chemical additives. Biul.stroi. tekh. 12 no.10:3-5 0 '55. (MIRA 12:1)

1. TSentral'nyy nauchno-issledovatel'skiy institut promyshlennykh sooruzheniy.

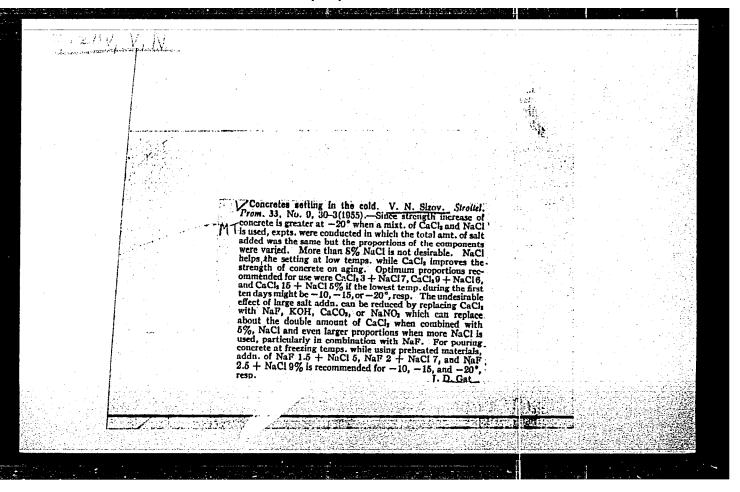
(Building-Cold weather conditions)

VASIL'YEV, A.P., kandidat tekhnicheskikh nauk; SIZOV, V.Y., kandidat tekhnicheskikh nauk; ARORELIMES, G.A., inwhener.

Building yards for the production of precast concrete construction elements. Stroi.prom. 33 no.1:22-26 Ja\*55. (MIRA 8:3)

1. TSentral'nyy nauchno-iseledovatel'skiy institut promyshlennykh soorusheniy (for Arobelidae)

(Precast concrete construction)



SIZOV, V.N.

Min Construction of Enterprises for the Retallurgical and Chemical Industries 655%. Technical Administration. Central Sci Res Inst of Industrial Structures (TSNIPS).

S120V, V.N.: "Investigation of concrete and solutions for winter work." Min Construction of Enterprises for the Metallurgical and Chemical Industries USSR. Technical Administration. Central Sci Res Inst of Industrial Structures (TsNips). Assertation for the Degree of Doctor in Technical Sciences)

SO: Knizhnaya Letopis', No. 20, 1956

MIRONOV, S.A., doktor tekhnicheskikh nauk, professor; ADOBNLIDZE, G.A., kandidat tekhnicheskikh nauk; SIZOV, V.N., kandidat tekhnicheskikh nauk; PKVZNER, A.S., redaktor izdatel stva; GUSEVA, S.S., tekhnicheskiy redaktor

[Instructions for steaming concrete and reinforced concrete elements in plants and yards (I 206-55/MSPMKhP)] Instruktsiia po proparivaniiu betonnykh i zhelezobetonnykh izdelii na zavodakh i poligonakh.
(I 206-55/MSPMKhP) Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 17 p. (MLRA 10:1)

1. Russia (1923- U.S.S.R.) Ministerstvo stroitel'stva prdpriyatiy metallurgicheskoy i khimicheskoy promyshlennosti. Tekhnicheskoye upravleniye. 2. Iaboratoriya betonov i vyazhushchikh TSentral'nogo nauchno-issledovatel'skogo instituta promyshlennykh sooruzheniy (for Mironov, Arobelidze, Sizov)

(Concrete)

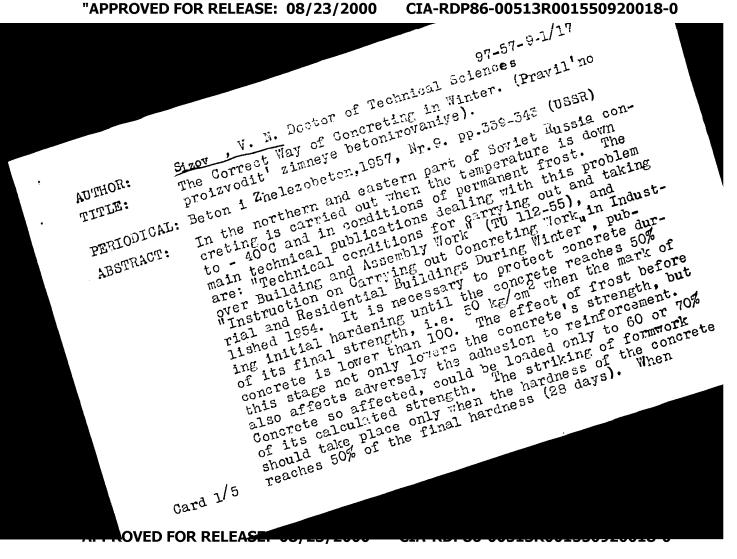
SIZOV, V.N., kandidat tekhnicheskikh nauk: KOROTKOV, S.N.

Rapid-hardening concrete for monolithic elements produced in winter. Biul.stroi.tekh. 13 no.4:4-6 Ap '56. (MLRA 9:8)

1. TSentral'nyy nauchno-issledovatel'skiy institut promyshlennykh sooruzheniy.

(Concrete)

# CIA-RDP86-00513R001550920018-0



The Correct Way of Concreting in Winter. 97-57-9-1/17

concrete articles are steam-cured no clinker or pozzolana cement should be used. Nor should these two types of cement be used when, during concreting, the temperatures of the soil is higher than that of the surrounding air. With steam-curing at a temperature not lower than 60°C, and especially at 85/90°C, these two types of cement can be more effectively and a special transfer to the surrounding air. be more effectively used in reinforced concrete constructions than Portland cement. The mineralogical content (e.g. the content of tri-calcium silicate and of tricalcium aluminate), activity, and speed of hardening of the cement, are of primary importance. Cements with a content of more than 45-55% of  $^{\rm C}_3{\rm S}$  form the bulk of cement production today. Acceleration of the hardening of concrete can be achieved by the addition of calcium chloride, by the reduction of the water/cement ratic, by increasing the gypsum content, by re-grinding of the cement, and finally by heat-curing. Of great importance for the rationalisation of building during winter is the wide application of pre-fabricated reinforced units. Experience gained by Zaporozhstroy, Krivorozhstroy and other building organizations shows that pre-cast units can be manufactured quite conveniently on concrete yards during winter. Lagnitostroy and Chelyabmetallurgstroy

Card 2/5

#### CIA-RDP86-00513R001550920018-0 "APPROVED FOR RELEASE: 08/23/2000

97-57-9-1/17 have manufactured a large amount of pre-cast foundations The Correct Way of Concreting in Winter. nave manufactures a large amount of pre-base foundation and other structural elements during the winter by the use of electrical heating. When using rapid-hardening use of electrical heating. be lower and of shorter duration. A handbook covering the processes of steam-curing of pre-cast constructions is: Instructions on Steam-Curing Concrete and Reinforced Concrete Products in Factories and Concrete Inforced Concrete Froducts in Factories and Concrete With the Stee Yards" (I 206-55 MSPMKhP). In comparison with the stee Yards" (I concrete without CaCl2, steam-curing of reinforced Concrete Without CaCl2, steam-curing of cache Without CaCl2, steam-curin In comparison with the steamforced concrete with 2% additive of calcium chloride somewhat increases corrosion of the reinforcement. increased corresion does not affect the load-bearing increased correston does not allege the local layer capacity of the reinforcement if the protective layer of concrete is at least 15 mm. not be used when the heat-cured concrete constructions are from clinker or slag, as the danger of corrosion arising from poorly burned clirker is considerably inarising from poorty ourmed clirker is considerably increased.

The addition of calcium chloride to a concrete creased. The addition of exceeding 2000 increases the mix at a temperature not exceeding 2000 increases the plasticity of the mix, as CaCle is a plastifying agent. The assembly of pre-cast units during winter conditions

CIA-RDP86-00513R001550920018-0" APPROVED FOR RELEASE: 08/23/2000

Card 3/5

The Correct Way of Concreting in Winter.

depends on the way the joints are made. Grouting of joints by concrete mix or grout, and their heat-curing, is extremely complicated and difficult; therefore, the use of frost-registant and anti-corrosive mixture appears to be the best solution of forming joints in heavy frost. A handbook describing grouting of joints is: Instructions on Assembly of Reinforced Concrete is: Instructions on Assembly of Reinforced Concrete and by pre-heating concrete of high relative strength heating is generally done by a current of 50-llo v, but heating is generally done by a current of 50-llo v, but in "Instructions on Electro-heating of Reinforced Concrete and Masonry" (I 94-54 MSPMKnP). Of considerable crete and Masonry" (I 94-54 MSPMKnP). Of considerable problem of concrete hardening at low temperatures by the prepared by using pre-heated material (aggregate sand), two days. The hardening takes place at a temperature

Card 4/5

The Correct Way of Concreting in Winter. of up to -10°C without loss of final strength. Concrete made with increased additives of various salts (up to 20%) is prepared from cold materials (aggregate sand) and hardened at a temperature of up to -2000. When using various additives of salts the instructions when using various additives of sales the instructions given in the following publication should be observed: Temporary Instructions for the Preparation of Concrete with Salt Additives, and its Hardening During Frost (I 307-55 MSPMKhP). The Academy of Building and Architecture of Bage (Abademia stroite) at 10 Minutes. tecture of DSSR, (Akademii stroitel stva i arkhitektury SSSR), together with the Institute for Concrete and Reinforced Concrete (Institut betona i zhelezobetona), is carrying out research and tests on the behaviour of concrete during various climatic conditions. AVAILABLE: Library of Congress. 1. Concrete-Construction

factors-Applications 2. Construction analysis 3. Weather

Card 5/5

(A) 100 SOV/2923

- Sizer, Vasility Nikolayevich, Deciment of the Chair Sciences, Laureage of the Stalin Prize
- Stroitel'nyye raboty v zimnikh usloviyakh (Construction Work Under Winter Conditions) 3d ed., rev. and enl. Moscow, dosstroyizdat, 1958. 538 p. 10,000 copies printed.
- Silentific Ed.: M. P. Edelev, Candidate of Technical Sciences; Ed. of Publishing House: I. P. Skvortsova; Tech. Eds.: E. M. El'kina, and M. V. Smolyakova.
- PURPOSE: This book is Intended for engineers and technicians of industrial and planning organizations as well as for personnel of scientific research institutes and laboratories.
- COVERAGE: This book contains scientific data and practical information on building sites, building materials, and different types of construction work. It discusses in detail concreting and masonry work under cold weather conditions, giving specific

Card 1/19

SIZOV, V., doktor tekhn. nauk.

How to secure strength and durability of winter bricklaying in spring. Stroitel' no.3:7-8;14 Mr '58.

(Bricklaying)

(Bricklaying)

SOV/97-58-11-11/11

AUTHOR: Besser, Ya. R. Cand. Tech. Sci.;

Sizov, V. N., Doctor of Tech. Sci., Professor. Book Review (Kritika i Bibliografiya)

PERIODICAL: Beton i Zhelezobeton, 1958, Nr.11, p.440 (USSR)

ABSTRACT: The following book is reviewed: A.G. Sarapin, "Production of Large-Scale Reinforced Concrete Constructions and

Details Using "Stand" Method, published by Gosstroyizdat, 1958. It deals with Russian and Foreign problems of and research into the production of large precast reinforced concrete units. There is an interesting chapter compiled

by the author in conjunction with operatives of the laboratory for reinforced concrete products of the Institute

of Building Technique of the Academy of Architecture of USSR (Institut stroitel'noy tekhniki Akademii arkhitektury SSSR). Curing methods are criticised. In general

the review is favourable.

Card 1/1

TITLE:

SIZOV, V.N., doktor tekhn. nauk.

Using chemical admixtures for mortars and concretes. Biul. stroi. tekh. 15 no.1:6-9 Ja 158. (MIRA 11:2)

and a second of the gradual and the first from the

1. Nauchno-issledovatel'skiy institut betona i zhelezobetona Akademii stroitel'stwa i arkhitektury SSSR.

(Concrete) (Mortar)

SIZOV, V.N., doktor tekhn.nauk.

Increasing the strength and durability of brick structures laid under winter conditions. Nov.tekh. 1 pered. op. v stroi. 20 no.1:13-17 Ja '58. (MIRA 11:2) (Bricklaying--Cold weather conditions)

MIRONOV, S.A., prof., doktor tekhn.nauk; SIZOV, V.N., prof., doktor tekhn.nauk; KHAVIN, B.N., red.izd-ve; TEMKINA, Ye.L., tekhn.red.

[Instruction SN 42-59 for using concrete with chloride salt additives hardening at freezing temperatures] Instruktsiia po primeneniiu betone s dobavkami solei, tverdeiushchego na moroze SN 42-59. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1959. 34 p. (MIRA 13:1)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Laboratoriya yacheistykh, legkikh i uskorennogo tverdeniya betonov Nauchno-issledovatel'skogo instituta betona i zhelezobetona (NIIZhB) Akademii stroitel'stva i arkhitektury SSSR (for Mironov, Sizov).

(Concrete)

sov/97-59-1-2/18Corresponding

AUTHORS: Mironov, S.A., /Member, ASiA SSSR, Doctor of Technical Sciences,

Professor; Sizov, V.N., Doctor of Technical Sciences, and

Khvorostyanskiy, V.F., Engineer

Methods of Obtaining High-Strength Vibrated Concretes Using TITLE:

Short Heat Curing (Sposoby polucheniya vysokoprochnykh betonov dlya vibroprokata pri kratkovremennoy teplovoy

obrabotke)

PERIODICAL: Beton i Zhelezobeton, 1959, Nr 1, pp 4-10 (USSR)

ABSTRACT: N.Ya. Kozlov, together with collectives SKB, NIIMosstroy investigated

Kalibrovskiy experimental plant and the and solved problems in the manufacture of panels using

ordinary reinforcement. Complications arise in the

manufacture of prestressed panels when vibration is used for The Giprostroyindustriya,

consolidation.

leadership of Engineer A.A. Susnikov, put forward to Gosstroy of USSR and the Institute for Concrete and Reinforced Concrete, ASIA SSSR (Instituta betona i

zhelezobetona. ASiA SSR), a programme to work out

Card 1/6 compositions of concrete and ways of heat curing for

SOV/97-59-1-2/18

Methods of Obtaining High-Strength Vibrated Concretes Using Short Heat Curing.

prestressed reinforced concrete panels using vibration for consolidation. For the manufacture of panels reinforced with ordinary reinforcement and consolidated by vibration, a cement-sand mix of 1:2 (by weight) should be used and panels cured for 2 hours on the conveyor belt or in forms at a temperature of 100°C. Special treatment is required in the case of prestressed reinforcement when the minimal strength of concrete must not be lower than 210 kg/cm<sup>2</sup> for the release of tensioned reinforcement. Portland cement used should be of high alumina content. ground to 3 500-5 000 cm2/g (according to Tovarov). Classified or coarse pure sand should be used with the addition of granite aggregate up to 10 mm in size. Head curing should be carried out at a temperature of 10000 fire a period of 3 hours (including the period of raising and lowering of temperature). It is necessary during the curing to preserve the degree of humidity. Rapid hardening Card 2/6 cements of a strength of 300 kg/cm2 are being manufactured.